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AMENDMENTS TO THE SPECIFICATION:

Page 1, please add the following new paragraph before paragraph [0001]:

[0000.2] CROSS REFERENCE TO RELATED APPLICATIONS

[0000.4] This application is a 35 USC 371 application of PCT/DE 2004/002041 filed on September 14, 2004.

[0000.6] BACKGROUND OF THE INVENTION

Please replace paragraph [0001] with the following amended paragraph:

[0001] Prior Art Field of the Invention

Please replace paragraph [0002] with the following amended paragraph:

[0002] The invention is based on a valve, in particular directed to an improved valve for a high-pressure pump of a fuel injection system for an internal combustion engine, as generically defined by the preamble to claim 1.

Please add the following <u>new</u> paragraph before paragraph [0003]:

[0002.5] Description of the Prior Art

Please replace paragraph [0003] with the following amended paragraph:

[0003] A high-pressure pump with such a valve of the type with which this invention is

concerned is known from German Patent Disclosure DE 197 44 577 A1. This high-pressure

pump has a housing in which the valve, embodied as a check valve, is disposed. The valve

has a valve member in the form of a ball, which cooperates with a valve seat formed in the

housing part in order to open and close a communication of a pump work chamber of the

high-pressure pump with a fuel outlet. The valve seat has an at least approximately conical

seat face. To achieve sure sealing of the valve seat by the valve member, the shape of the seat

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face in terms of roundness and its surface smoothness must be manufactured very precisely.

This requires complicated machining of the seat face, for instance by means of grinding. In

the known valve, the seat face is large, so that its machining requires a large tool and is time-

consuming and under some circumstances leads to the removal of a large amount of material.

If the housing part of the high-pressure pump is hardened, the hardened surface layer of the

housing part might be removed under some circumstances, and in that case there is no longer

adequate strength of the seat face, which is hence subject to severe wear. Furthermore, the

flow through the known valve is not optimal, because of the major flow deflection and the

attendant flow losses of the seat face.

Page 2, please replace paragraph [0004] with the following amended paragraph:

[0004] Advantages of the Invention

SUMMARY AND ADVANTAGES OF THE INVENTION

Please replace paragraph [0005] with the following amended paragraph:

[0005] The valve of the invention having the characteristics of claim 1 has the advantage

over the prior art that the seat face is markedly stepped by the faces of deviating inclination

that adjoin it and is thus easier to machine, is short in length, and requires less removal of

material, so that with a hardened housing part, the hardened surface layer is also preserved at

the seat face. Moreover, by means of the faces adjoining the seat face, a gradual deflection of

the flow is achieved, thus reducing the flow losses.

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Please replace paragraph [0006] with the following amended paragraph:

[0006] In the dependent claims, advantageous Advantageous features and refinements of the valve of the invention are disclosed, including. The embodiments according to claims 2 and 3 which make a further reduction in the size of the seat face possible and hence a simplification of its machining and a further reduction in the flow losses. The embodiment according to claim 4 likewise makes a further reduction in flow losses possible. The high-pressure pump of the invention having the characteristics of claim 7 has the advantage that it is simple to manufacture, and a good flow from its inlet valve and/or outlet valve is attained.

Page 3, please replace paragraph [0007] with the following amended paragraph:

[0007] Drawing BRIEF DESCRIPTION OF THE DRAWINGS

Please replace paragraph [0008] with the following amended paragraph:

[0008] Further exemplary embodiments of the invention are shown in the drawing and explained further in the ensuing description. Fig. 1 shows a high-pressure pump for a fuel injection system of an internal combustion engine; Fig. 2 shows a valve of the high-pressure pump in an enlarged view of a first exemplary embodiment in the pre-machined state; Fig. 3 shows the valve in a completely machined state; Fig. 4 shows the valve in a second exemplary embodiment in the pre-machined state; Fig. 5 shows the valve in a third exemplary embodiment in the completely machined state; and Fig. 6 shows the valve in a fourth exemplary embodiment in the completely machined state: described herein below, with reference to the drawings, in which:

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Please add the following <u>new</u> paragraphs before paragraph [0009]:

[0008.2] Fig. 1 shows a high-pressure pump for a fuel injection system of an internal combustion engine;

[0008.4] Fig. 2 shows a valve of the high-pressure pump in an enlarged view of a first exemplary embodiment in the pre-machined state;

[0008.6] Fig. 3 shows the valve in a completely machined state;

[0008.8] Fig. 4 shows the valve in a second exemplary embodiment in the pre-machined state;

[0008.10] Fig. 5 shows the valve in a third exemplary embodiment in the completely machined state; and

[0008.12] Fig 6 shows the valve in a fourth exemplary embodiment in the completely machined state.

Please replace paragraph [0009] with the following amended paragraph:

[0009] Description of the Exemplary Embodiments

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Page 5, please replace paragraph [0013] with the following amended paragraph: [0013] In each of Figs. 2 through 6, a valve of the high-pressure pump is shown enlarged; this may be the inlet valve 28 or the outlet valve 34 of the high-pressure pump. The valve will be described in further detail below in terms of the outlet valve 34. The fuel outlet 32 extends as a bore in the housing 10 of the high-pressure pump; the bore has one portion 32a of small diameter, opening into the pump work chamber 24, and one portion 32b of large diameter,

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discharging at the outside of the housing 10. The valve member 35, embodied as a ball, of the

valve 34 is located in the bore portion 32. The diameter of the valve member 35 is less than

the diameter of the bore portion 32 32b, but greater than the diameter of the bore portion 32a.

At the transition between the bore portion 32a, 32b, a valve seat 44 is formed in the housing

10, and the valve member 35 cooperates with it to close and open the fuel outlet 32 from the

pump work chamber 24. The valve member 35 is pressed against the valve seat 44 by a

closing spring 48, fastened between this valve member and a closure element 46 that closes

off the bore portion 32b toward the outside. When the pressure in the pump work chamber

24, which acts on the valve member 35 via the bore portion 32a, generates a greater force

against the valve member 35 than the closing spring 48 does, the valve member 35 lifts from

the valve seat 44 and opens the fuel outlet. A further bore 50, which communicates with the

reservoir 110 via a line, discharges into the bore portion 32b.

Page 9, please add the following new paragraph after paragraph [0017]:

[0018] The foregoing relates to a preferred exemplary embodiment of the invention, it being

understood that other variants and embodiments thereof are possible within the spirit and

scope of the invention, the latter being defined by the appended claims.

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